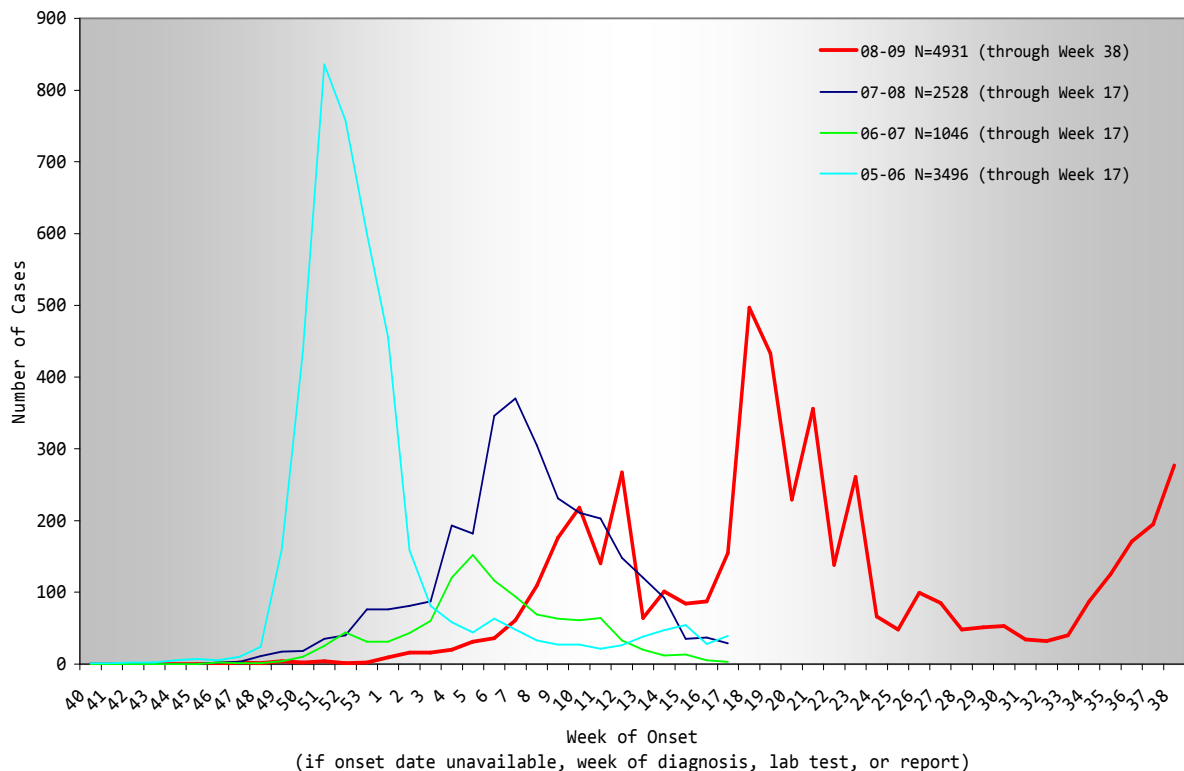
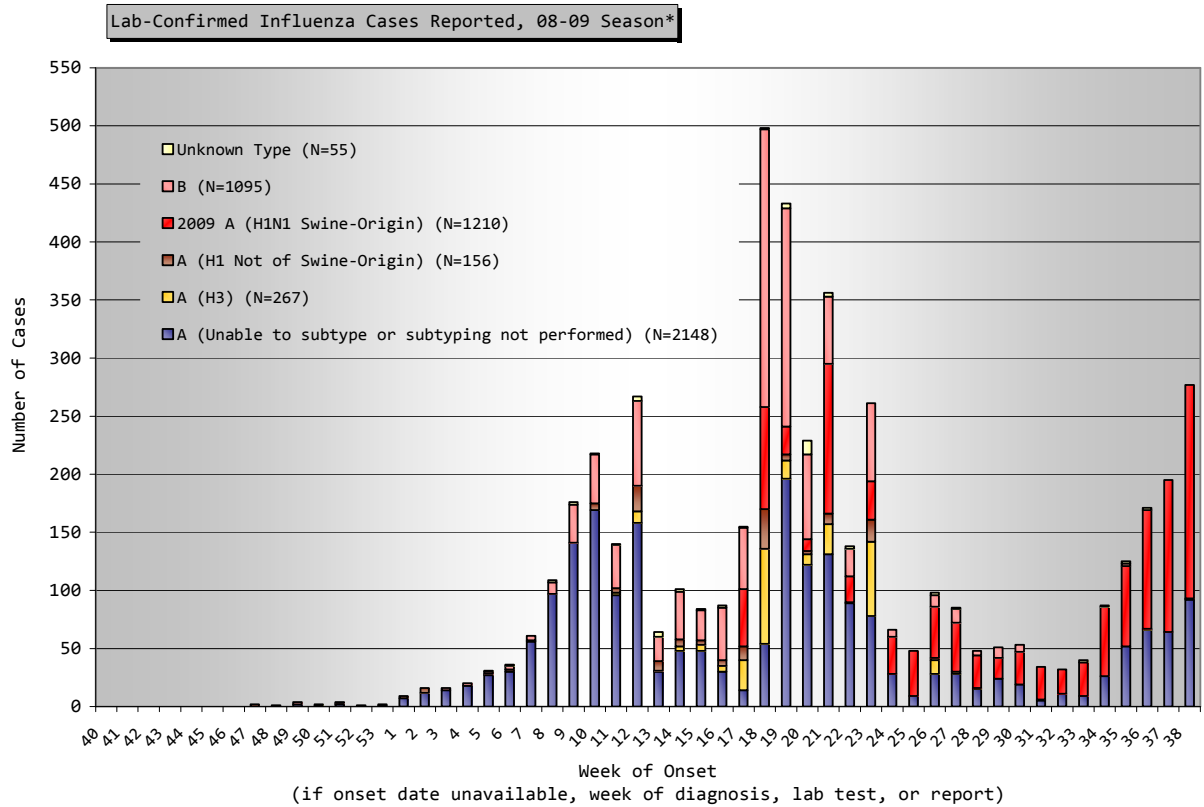
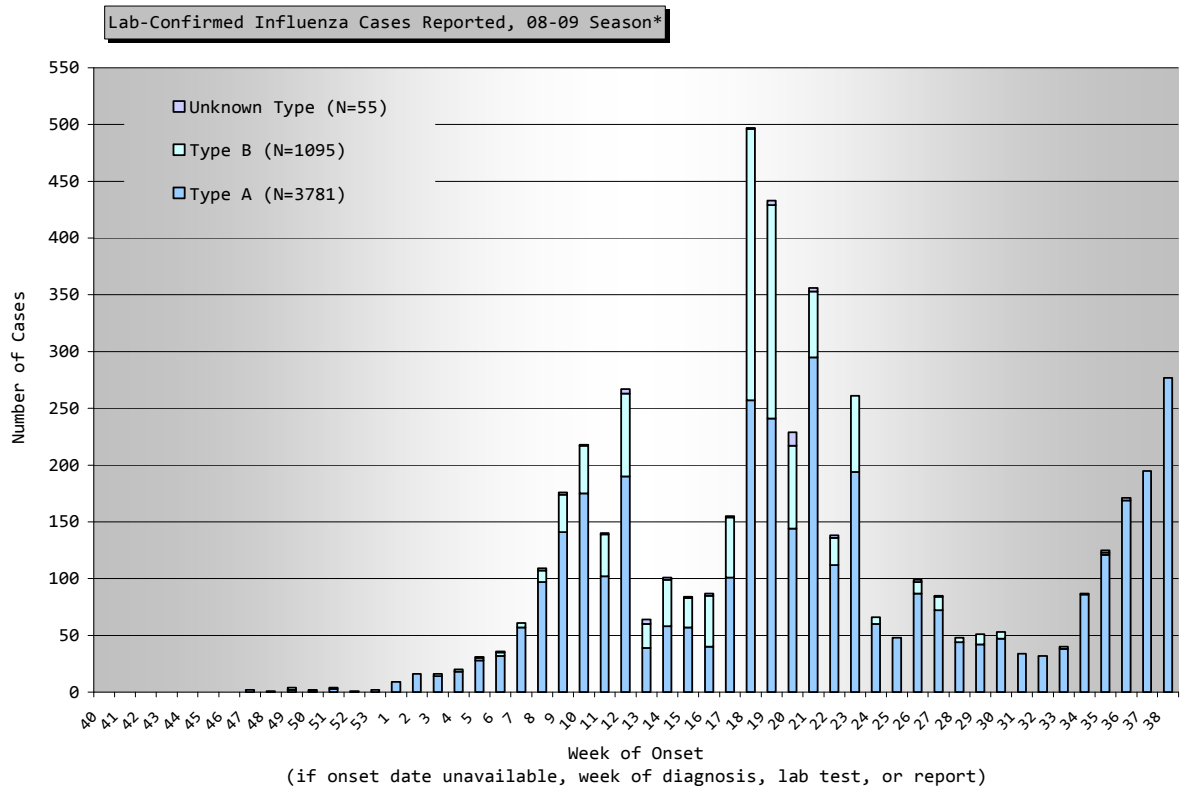


**MARICOPA COUNTY INFLUENZA SUMMARY UPDATE**  
**WEEK 38 (9/20/09-9/26/09)**

- **Lab Confirmed Influenza:** 4931 cases of influenza have been confirmed at the Arizona State Laboratory (Through week 38)
- **Pneumonia & Influenza Mortality:** 3.30% of all deaths were due to pneumonia or influenza (Week 38) (MCDPH Office of Vital Statistics)
  - **Influenza Associated Deaths (IAD):** 31 influenza-related deaths have been reported through week 38. **(10 type-A, 3 type-B, 4 type-Unknown & 14 novel H1N1).**
  - **Pediatric IAD:** 6 of the 31 IAD were pediatric cases. **(2 type A, 3 Type A/H1N1 & 1 type B).**
- **Influenza-Like Illness:**
  - **Cigna Health Centers (n=20):** 0.45% of visits due to ILI. (provisional data; subject to change as updated information becomes available)
  - **Hospital Emergency Departments (n=17):** 3.42% of visits due to ILI.
- **Biosense:** (n=6) 0.49% of all visits were due to ILI.
- **Respiratory Syndromes (Biosense):** (n=6) 15.01% of all visits were due to a respiratory syndrome.

Lab-Confirmed Influenza Cases Reported:  
05-06 Season, 06-07 Season, 07-08 Season, 08-09 Season





**2008-2009, Age Distribution, Various Methods of Counting Seasonal Influenza-Associated Deaths**

2008-2009 Seasonal Influenza	A=Influenza on DC + positive testing			B=Influenza on DC, no testing or unknown testing			C=No influenza but respiratory COD on DC + positive testing			D=Influenza on DC + negative culture/PCR			E=Pending DC + positive testing			TOTALS		
Influenza Type	A	B	Unk	A	B	Unk	A	B	Unk	A	B	Unk	A	B	Unk	A	B	Unk
Under 5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0
5-19	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
20-64	1	1	0	1	0	1	1	0	0	1	0	0	1	0	0	5	1	1
65 and older	0	0	0	0	0	0	3	1	0	0	0	3	0	0	0	3	1	3
<b>TOTAL</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>3</b>	<b>4</b>

**2008-2009, Age Distribution, Various Methods of Counting Novel Influenza-Associated Deaths**

2008-2009 Novel H1N1 Strain	A=Influenza on DC + positive testing	B=Influenza on DC, no testing or unknown testing	C=No influenza but respiratory COD on DC + testing	D=Influenza on DC + negative culture/PCR	E=Pending DC + positive testing	TOTALS
Age Group	<b>All Novel H1N1 Strains are Type A influenza.</b>					
Under 5	1	0	0	0	0	1
5-19	1	0	0	0	1	2
20-64	4	0	3	0	1	8
65 and older	0	0	1	0	2	3
<b>TOTAL</b>	<b>6</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>4</b>	<b>14</b>

**2008-2009, Confirmed Seasonal and Novel H1N1 Influenza-Associated Deaths by serotype.**

Type	Seasonal Influenza*	Novel H1N1	Total
A	9	14	23
B	3		3
Unk	1		1
<b>Total</b>	<b>13</b>	<b>14</b>	<b>27</b>

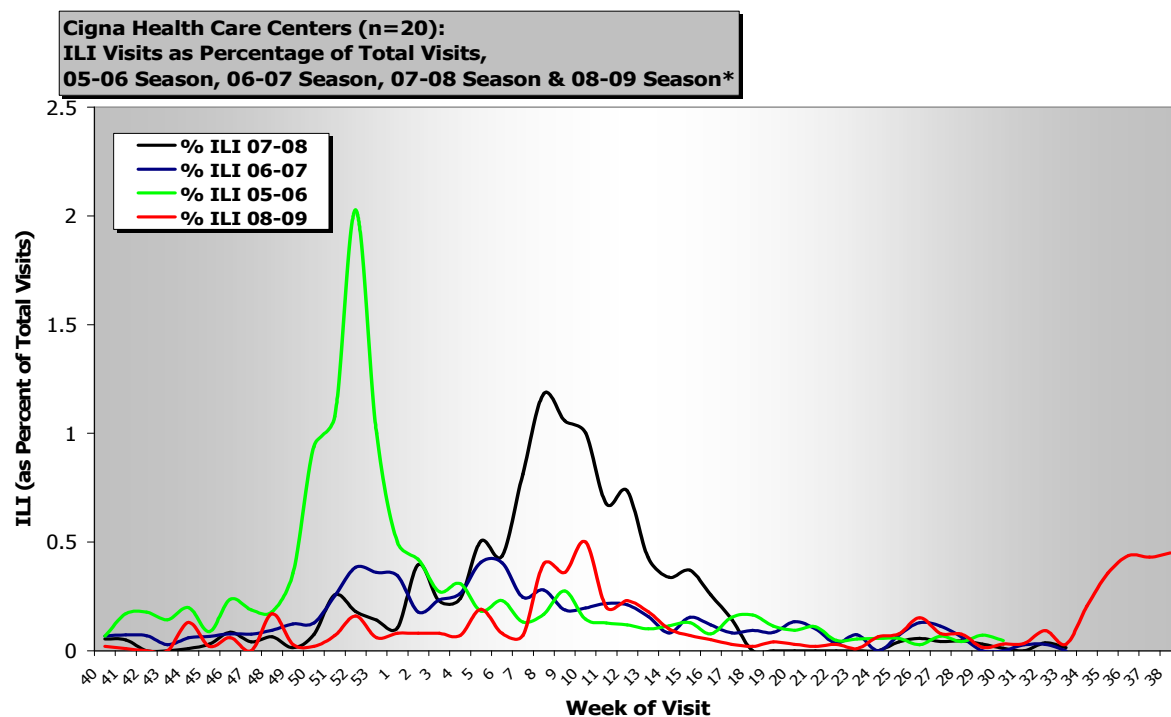
*\*Confirmed IAD include cases with Influenza or Respiratory causes of death + positive testing or unknown testing. Cases with positive testing and a pending death certificate are also included.*

**Influenza-Like Illness (ILI)\* Surveillance**

\*ILI case definition: fever (at least 100°F) AND cough and/or sore throat.

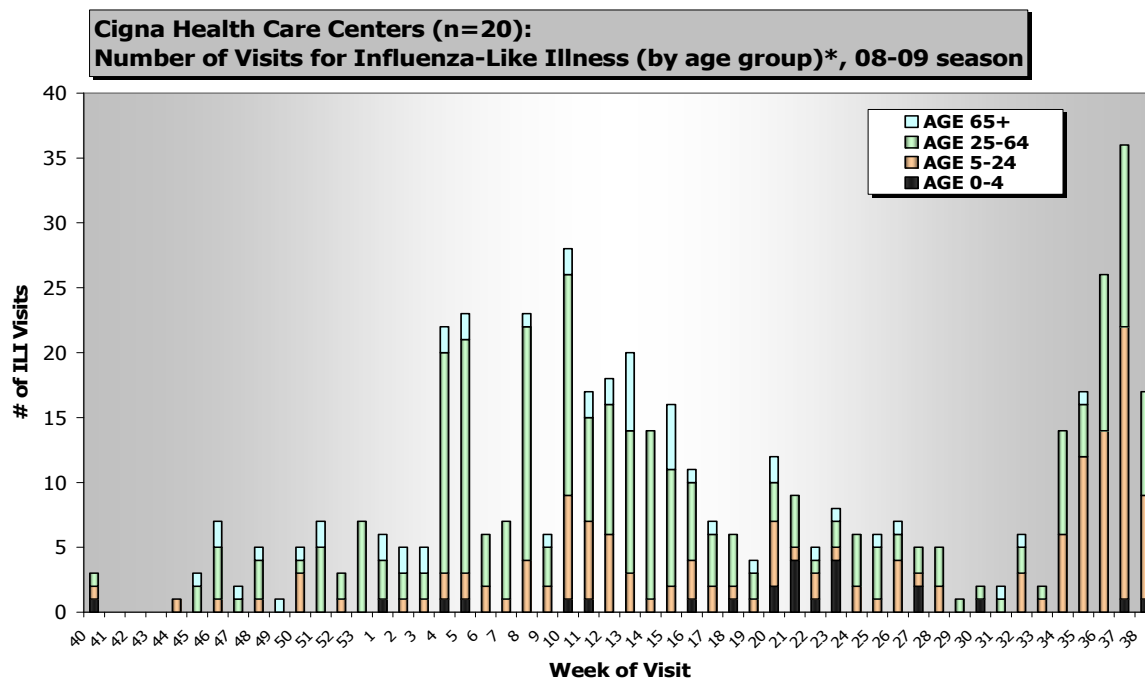
- During Week 38, 0.45% of patient visits to Cigna Health Care Centers (data from 20 centers, six departments) were due to ILI. During Week 38 of the two previous seasons, 0.00% (07-08) and 0.00% (06-07) of patient visits to Cigna Health Care Centers were due to ILI. (\*Provisional data; may change in subsequent reports as updated information becomes available.)
- The percentage of ER visits for ILI (data from 17 hospitals) was 3.42% for Week 38.

## Influenza-Like Illness (ILI)\* Surveillance



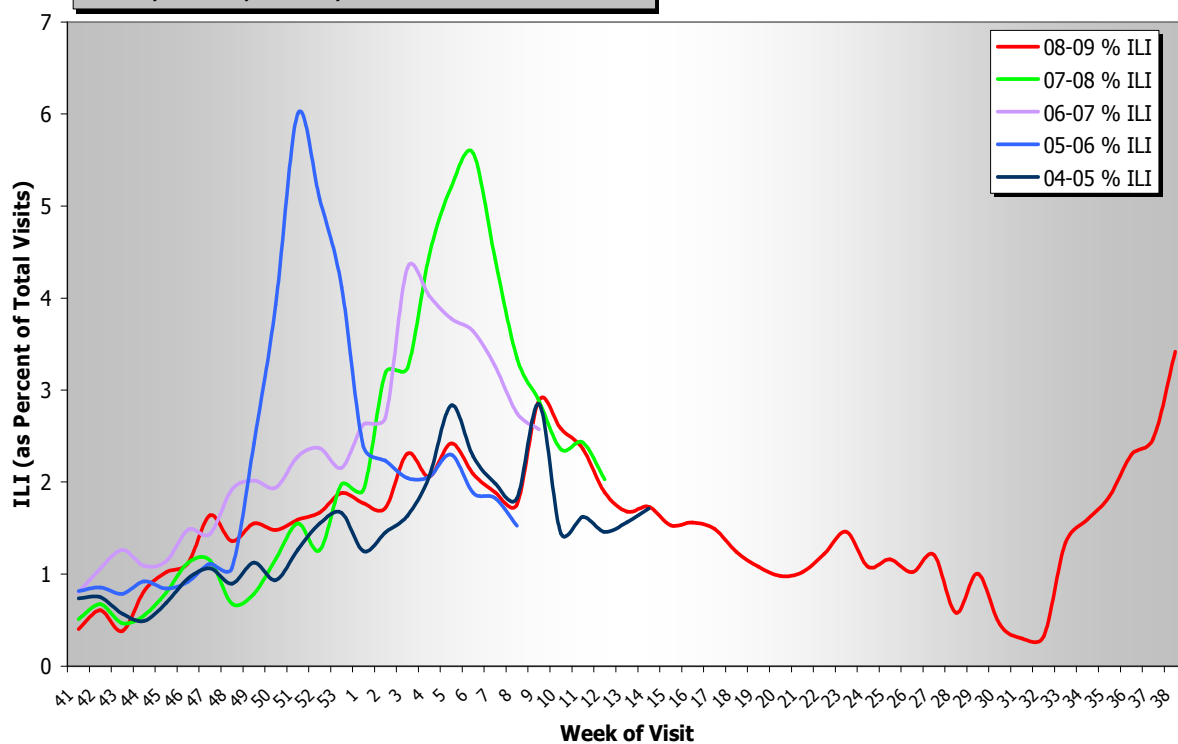
\*Data for Weeks 35-38 of the 08-09 season is provisional and may change in subsequent reports as updated information becomes available.

## Influenza-Like Illness (ILI)\* Surveillance

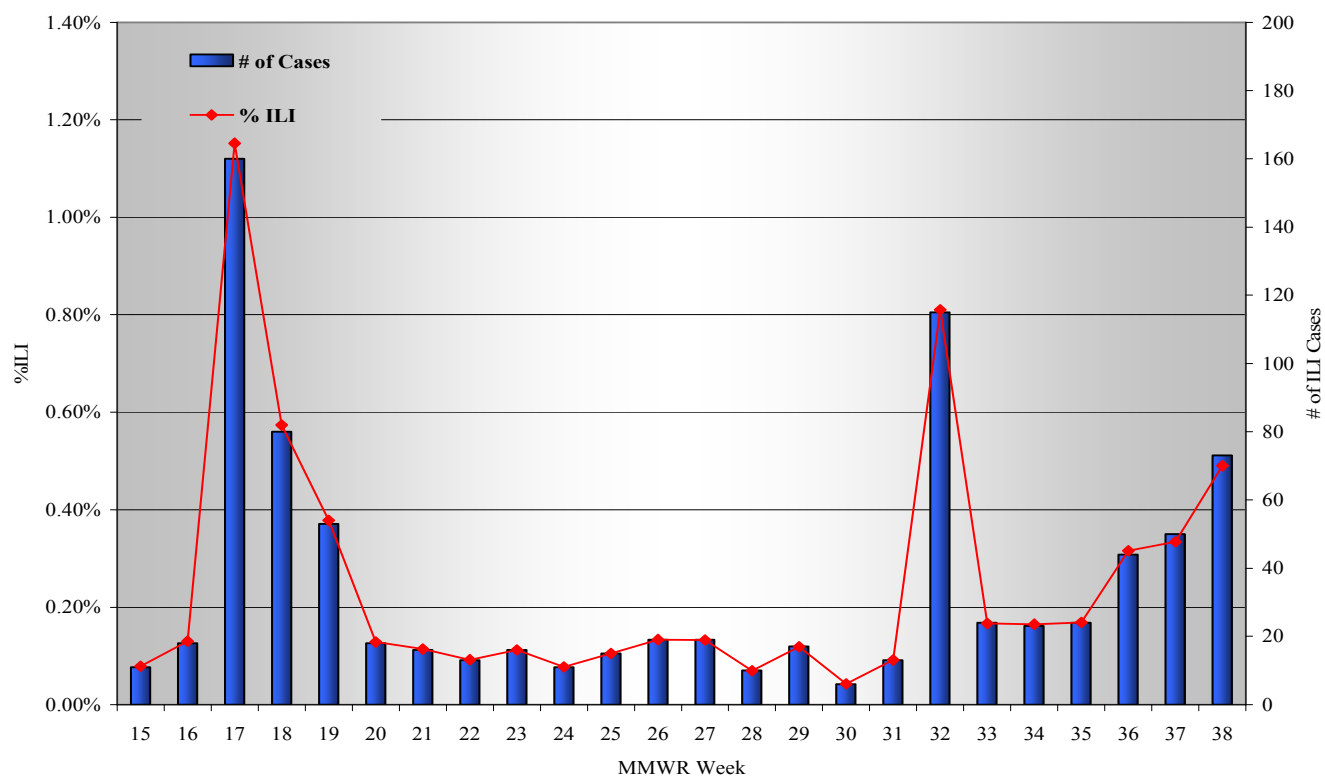


\*Data for Weeks 35-38 of the 08-09 season is provisional and may change in subsequent reports as updated information becomes available.

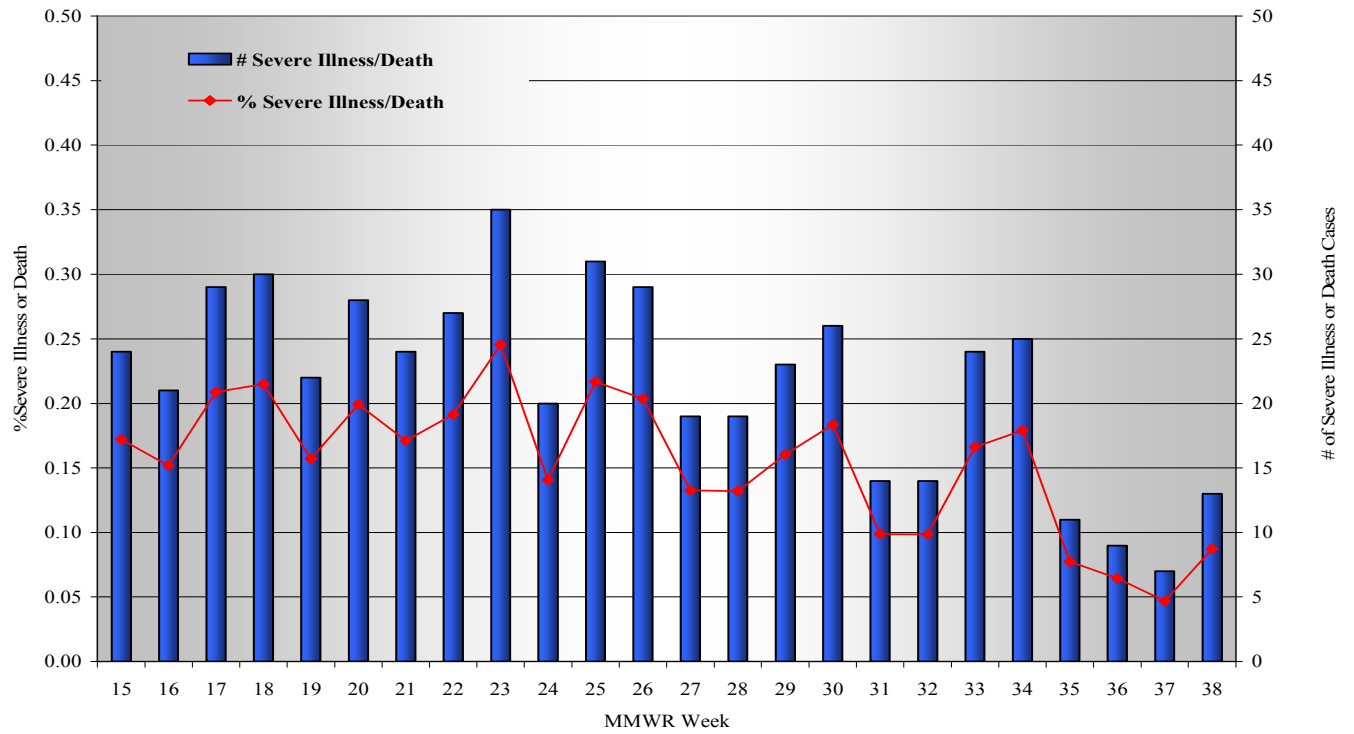
**Hospital Emergency Departments (n=17):  
ILI Visits as Percentage of Total Visits  
04-05, 05-06, 06-07, 07-08 & 08-09 Seasons**



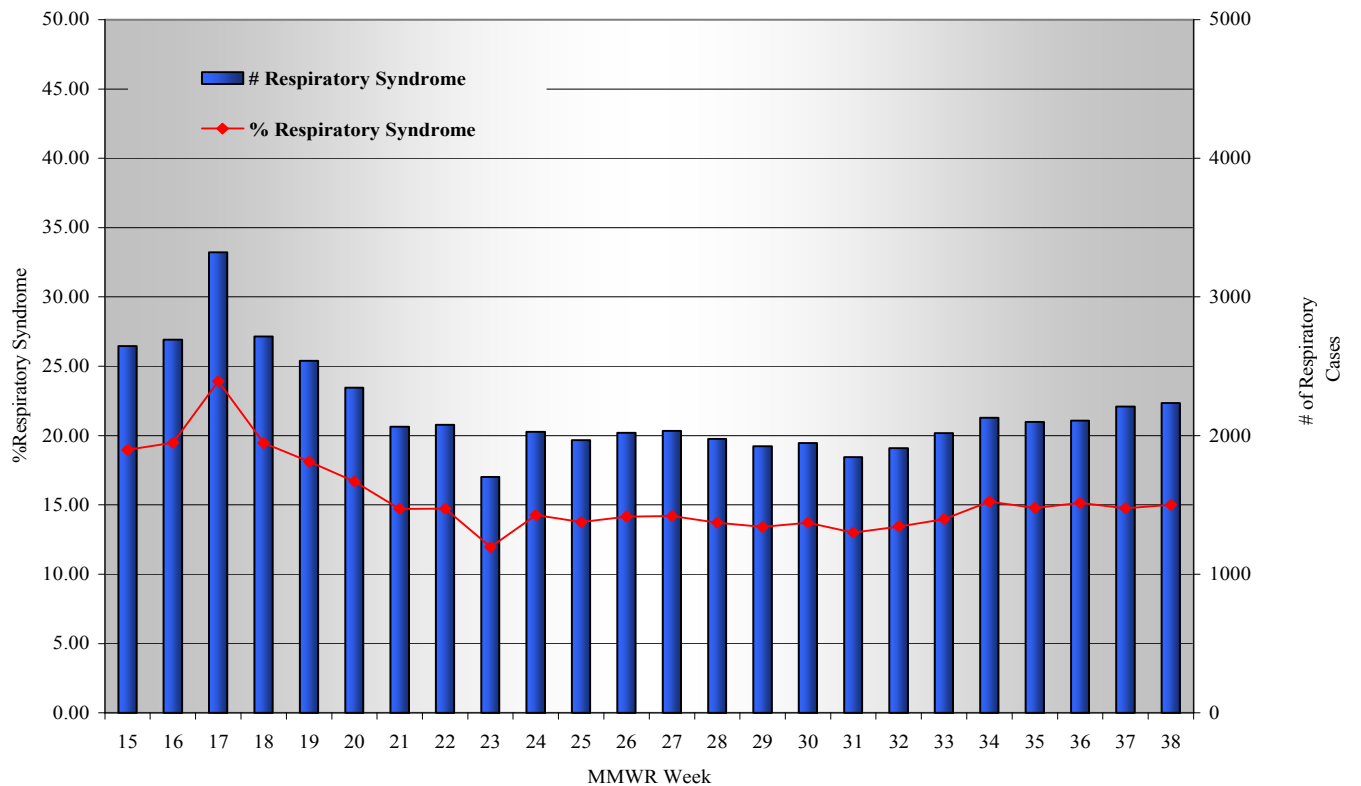
**All Biosense Facilities- Weekly ILI Surveillance  
(n=6 facilities)**



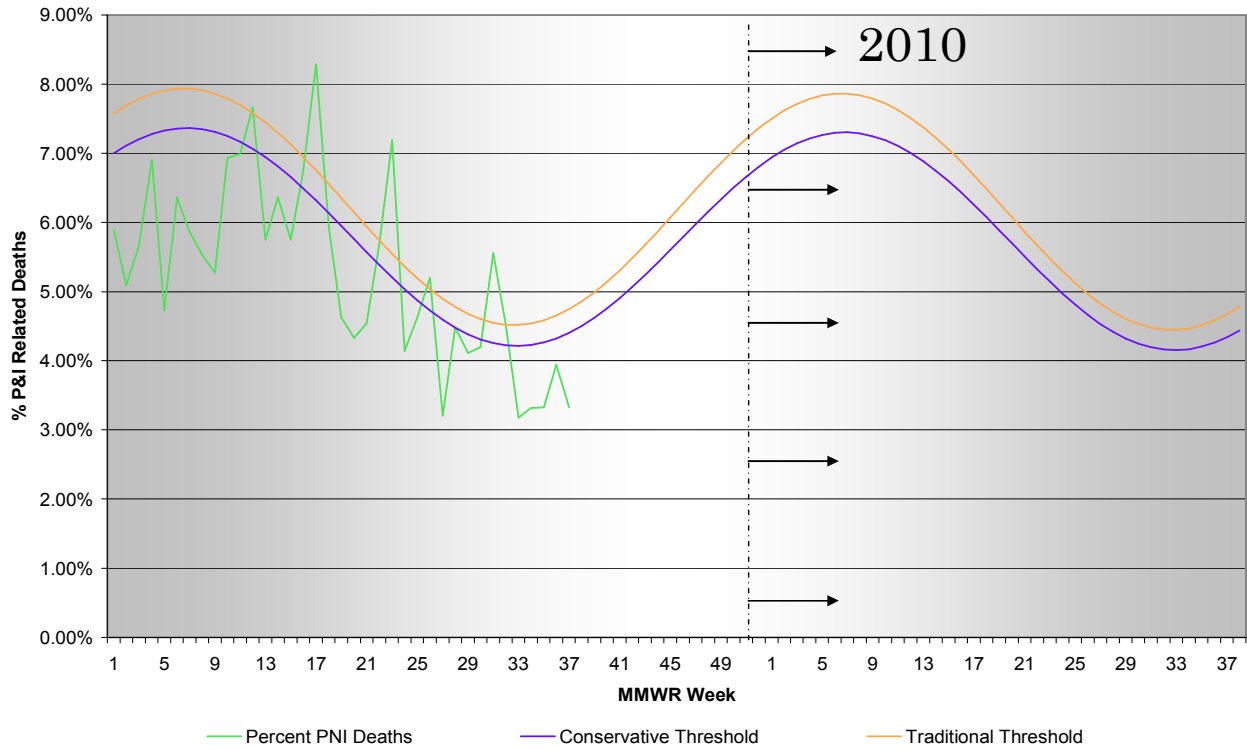
### All Biosense Facilities Daily Syndrome Surveillance: Severe Illness or Deaths (n=6 facilities)



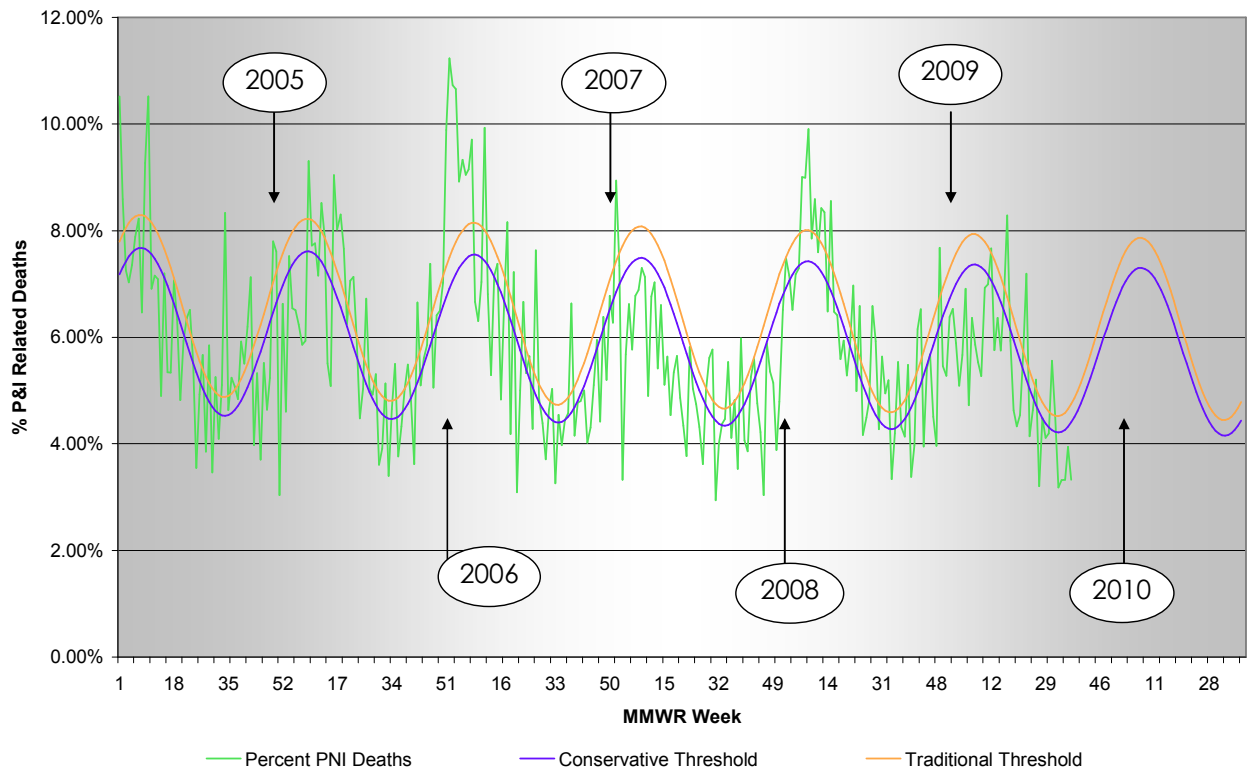
### All Biosense Facilities Daily Syndrome Surveillance: Respiratory (n=6 facilities)



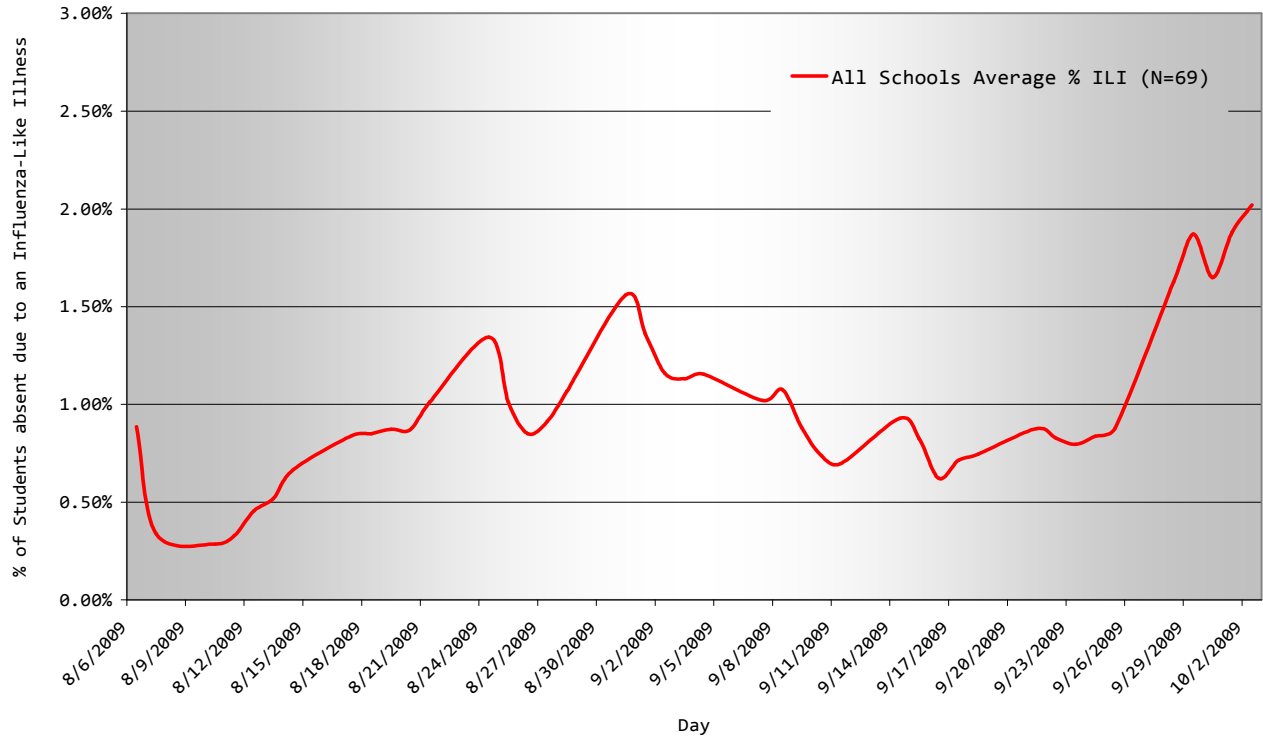
**Maricopa County 2009-2010  
Pneumonia and Influenza Related Deaths**



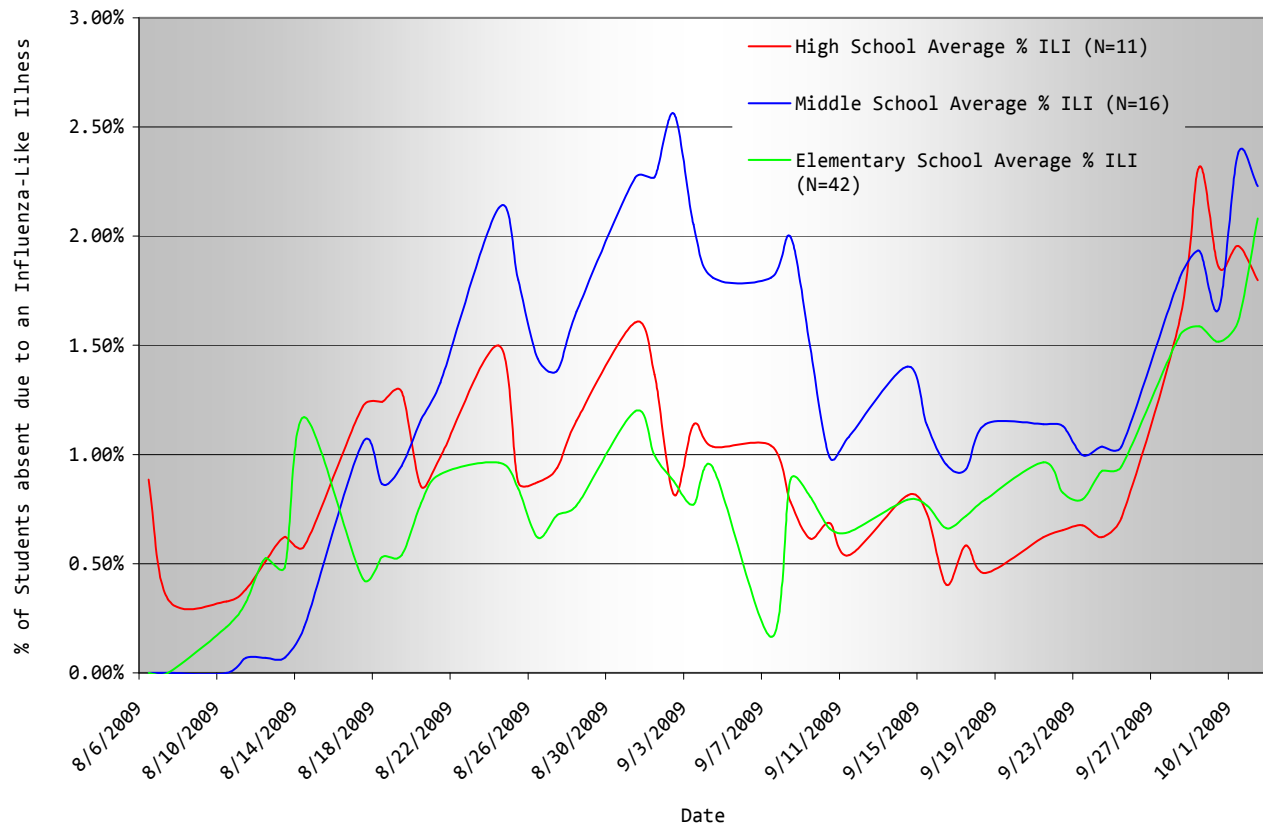
**Maricopa County 2004-2009  
Pneumonia and Influenza Related Deaths**



Maricopa County 2009-2010:  
School ILI Surveillance by Date (n=69 Schools)



Maricopa County 2009-2010:  
School ILI Surveillance by Date and Type of School





## ***Influenza Activity outside Maricopa County***

Information on influenza activity outside Maricopa County is available at these sites:

- [http://azdhs.gov/phs/oids/epi/flu/az\\_flu\\_surv.htm](http://azdhs.gov/phs/oids/epi/flu/az_flu_surv.htm) (Arizona Department of Health Services)
- <http://www.cdc.gov/flu/weekly/fluactivity.htm> (CDC)

*Due to wide variability between national- and local-level data, it is not appropriate to apply any national baselines or thresholds to the information represented in this report.*

*Please email any questions about this report to: [dereksteinke@mail.maricopa.gov](mailto:dereksteinke@mail.maricopa.gov).*

*Report generated: 10/2/09.*

## ***Influenza Surveillance Participants include:***

Arizona Department of Health Services

Cigna Health Care Centers

Arizona State University Campus Health Services

## ***Hospital Emergency Departments & Infection Control Practitioners***

- |                            |                                    |                                 |                                 |
|----------------------------|------------------------------------|---------------------------------|---------------------------------|
| • Banner Baywood Hospital  | • Banner Del E. Webb Hospital      | • St. Josephs Hospital          | • Scottsdale Healthcare         |
| • Banner Desert Hospital   | • Arrowhead Hospital               | • St. Luke's Hospital           | Thompson Peak                   |
| • Banner Estrella Hospital | • Carl T. Hayden VA Medical Center | • Tempe St. Luke's              | • Wickenburg Community Hospital |
| • Banner Gateway Hospital  | • John C Lincoln North Mountain    | • Scottsdale Healthcare Shea    |                                 |
| • Banner Good Samaritan    | • Mayo Hospital                    | • Scottsdale Healthcare Osborne |                                 |
|                            | • MMC                              |                                 |                                 |

## ***Maricopa County School Partners (by District):***

### **Deer Valley Unified District**

Desert Sky Middle

### **Fountain Hills Unified District**

Fountain Hills High

Fountain Hills Middle

Four Peaks Elementary

McDowell Mountain

Elementary

### **Gilbert Unified District**

Desert Ridge High

South Valley Junior High

### **Glendale Elementary District**

Bicentennial North

Elementary

Bicentennial South

Elementary

Coyote Ridge Elementary

Discovery Elementary

Glendale American

Elementary

Glenn F. Burton Elementary

Horizon Elementary

Landmark Middle

### **Glendale Union District**

Apollo High

Moon Valley High

Sunnyslope High

### **Littleton Elementary District**

Tres Rios Elementary

### **Madison Elementary District**

Madison Heights Elementary

Madison Meadows Middle

Madison No. 1 Middle

Madison Park Middle

Madison Rose Lane

Elementary

Madison Traditional Academy

### **Mesa Unified District**

Frost Elementary

Highland Elementary

Lowell Elementary

Mesa High

Red Mountain High

Westwood High

Hendrix Junior High

Powell Junior High

### **Queen Creek Unified District**

Queen Creek High

### **Scottsdale Unified District**

Chaparral High

Mountainside Middle

Sequoia Elementary

### **Tempe Elementary District**

Aguilar Elementary

Arredondo Elementary

Broadmor Elementary

Bustoz Elementary

Carminati Elementary

Connolly Middle

Curry Elementary

Fees Middle

Frank Elementary

Fuller Elementary

Getz Elementary

Gililand Middle

Holdeman Elementary

Hudson Elementary

Intervention Learning

Program

Laird Elementary

McKemy Middle

Meyer Elementary

Nevitt Elementary

Rover Elementary

Scales Technology Academy

Thew Elementary

Ward Traditional Academy

Wood Elementary

### **Tempe Union District**

Desert Vista High

### **Washington Elementary District**

John Jacobs Elementary

Roadrunner Elementary

Sunnyslope Elementary

### **Wickenburg Unified District**

Festival Foothills Elementary

Hassayampa Elementary

Vulture Peak Middle

Wickenburg High

